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NASA Procedural Requirements

COMPLIANCE IS MANDATORY

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**Subject: Technical Probabilistic Risk Assessment (PRA)
Procedures for Safety and Mission Success for NASA Programs
and Projects**

Responsible Office: Office of Safety and Mission Assurance

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Chapter 5. IPR

5.1 Overview

5.1.1 An IPR is conducted to assure that the PRA represents the correct risk profile of the system being modeled and supports the decisions being made as documented in the approved PRA plan. These reviews are important for PRAs involving public and employee health and safety, nuclear space missions, and for program/project PRAs involving high cost and strategic importance (Priority Ranking I programs/projects).

5.2 IPR Authority

5.2.1 The SMA Technical Authority shall:

- a. Ensure the organization, coordination, and conduct of an IPR for each PRA of a Priority Ranking I and payload risk classification A program and project (see Chapter 3)([Requirement 69354](#)).
- b. Ensure the coordination of the IPRs with the program/project manager to ensure it is documented in the PRA plan ([Requirement 69355](#)).
- c. Ensure that the IPR is carried out by a team of independent peers including both recognized PRA experts as well as relevant domain experts in the design and mission of the program/project, who are not involved in the study and have no stake in its results ([Requirement 69356](#)).

d. Ensure the IPR concentrates on the appropriateness of methods, information sources, judgments, and assumptions with respect to the program/project/system application being evaluated and its objective(s) ([Requirement 69357](#)).

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